

Case No. 12215

~~928 6/1/99~~



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

GOVERNOR

6/1/99

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

- MC _____
- DHC _____ **X** _____
- NSL _____
- NSP _____
- SWD _____
- WFX _____
- PMX _____

Gentlemen:

I have examined the application for the:

<u>Anadarko Petroleum Corp</u>	<u>EW Walden</u>	<u>#12-F, 15-225-37e</u>
Operator	Lease & Well No.	Unit S-T-R

and my recommendations are as follows:

OK-

Yours very truly,

Chris Williams

Chris Williams
Supervisor, District 1

/ed

DHK 6/17/99
OIL CONSERVATION DIV.

SO MAY 26 PM 117
Anadarko

May 19, 1999

David Catanach
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505-6429

12215

Re: ~~Surface~~ ^{downhole} Commingling
E.W. Walden Lease
Lea County, New Mexico

Dear Mr. Catanach:

Anadarko (OGRID 000817) requests administrative approval for an exception to Rule 303-A to permit downhole commingling of the Grayburg and San Andres oil-oil zones in the wellbore of E.W. Walden #12. The well is located in Section 15 – T22S- R37E in Lea County, New Mexico. Exhibit 1 is a map of the EW Walden lease. This lease currently has 8 active producers in the Grayburg formation.

The EW Walden #12 is currently producing in the Grayburg at a rate of 1 BOPD, 2 BWPD and 23 MCFPD. This well is currently at its economic limit and if the commingling is approved, additional reserves could be recovered from the Grayburg formation. The San Andres was perforated and tested briefly in 1982 at a rate of about 25 BOPD. If this application is approved both zones will be turned together and placed on sucker rod pump.

In the wellbore, the Grayburg zone is perforated from 3640-3843' and the San Andres zone is perforated from 3899-3976'. The current producing BHP is 120 psi for the Grayburg interval (based on fluid level analysis) and the BHP for the San Andres is 880 psi (based on Lou Wortham C#2 offset analogy). The pressure difference should not be a problem as we will attempt to keep both zones in the "pumped off" condition in the wellbore. In the event that crossflow should occur, the waters are compatible (attached water analysis) and combining the fluids should not result in the formation of formation damaging precipitates.

Based on the latest test in the Grayburg (4/99) and the last test in the San Andres (8/82) in this well, the well should initially produce 25-30 BOPD, 350 MCFPD and 250 BWPD. This combined rate was developed by using the allocation of 96.5% for the San Andres and 3.5 % for the Grayburg. These allocation factors were developed based on current and past production. A current production plot is included for the Grayburg interval as well as the brief production history for the San Andres interval.

At present the well is not involved in a secondary recovery project. If a future secondary recovery project were to be considered we foresee no problems with this commingling prospect jeopardizing the efficiency of a secondary project.

If commingling is approved, Anadarko Petroleum Corporation, will be the operator of the said well located 2250' FNL & 1350' FWL, Sec 15, T22S, R37E, Lea County, New Mexico, Penrose Skelly Grayburg and Southwest Eunice San Andres. All working, overriding, and royalty interests are the same in the two commingled zones.

Surface Commingling
E.W. Walden Lease
May 19, 1999
Page 2 of 2

All offset operators have been notified of the proposed commingling by a copy of this letter. If you have any questions regarding this proposed action, please feel free to contact me at (915) 683-0559.

Sincerely,

A handwritten signature in black ink that reads "Richard Lauderdale". The signature is written in a cursive style with a large initial 'R'.

Richard Lauderdale
Production Engineer

Attachments

cc: NMOCD - District I (Hobbs)
REL/Harold/Well File
Offset Operators (see attached list)

**ANADARKO PETROLEUM CORPORATION
Offset Operators List
E.W. Walden Lease
Lea County, New Mexico**

Collins & Ware, Inc.
Empire Plz.
508 W. Wall, Ste. 1200
Midland, Texas 79701-5076

Chevron U.S.A. Production Company
Box 1635
1301 McKinney
Houston, Texas 77251

Conoco, Inc.
10 Desta Dr., Ste. 100W
Midland, Texas 79705-4500

John H. hendrix
Box 3040
110 N. Marienfeld, Ste. 400
Midland, Texas 79701

ICA Energy, Inc.
Box 233
Odessa, Texas 79760-0233

Oryx Energy Co.
13155 Noel Rd.
Dallas, Texas 75221-2880

Wagner & Brown, LTD.
Box 1714
300 N. Marienfeld, Ste. 1100
Midland, Texas 79702

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-A
Revised March 17, 1999

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS:
Case 12215
___ Administrative ___ Hearing
EXISTING WELLBORE
___ YES ___ NO

APPLICATION FOR DOWNHOLE COMMINGLING

ANADARKO PETROLEUM CORPORATION P O BOX 2497 MIDLAND TX 79702

Operator Address
E.W. WALDEN 12 F - SEC 15-T22S-R37E LEA
Lease Well No. Unit Ltr. - Sec - Twp - Rge County
Spacing Unit Lease Types: (check 1 or more)
OGRID NO. 000817 Property Code 001414 API No. 30-025-27756 Federal State (and/or) Fee X

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	PENROSE SKELLY GRAYBURG 50350		EUNICE; SAN ANDRES, SOUTHWEST 24180 <i>20 000000 #2, 2000 0000 #2</i>
2. Top and Bottom of Pay Section (Perforations)	3640-3843		3899-3976
3. Type of production (Oil or Gas)	OIL		OIL
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) 120 BHP	a.	a.
	b. (Original)	b.	b. FROM LOU WORTHAM C#2 ANALOGY (ATTACHED) 880 PSI
6. Oil Gravity (EAPI) or Gas BTU Content	35.0° API		37.1° API
7. Producing or Shut-In?	PRODUCING		SI
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	YES		YES, IN OFFSETTING LSES
	Date: Rates:	Date: Rates:	Date: 08/82 Rates: 27 BOPD, 245 BWPD 330 MCFPD
	Date: 4/20/99 Rates: 1 BOPD, 23 MCFPD, 2 BWPD	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: 3.5 % Gas: 6.5 %	Oil: % Gas: %	Oil: 96.5 % Gas: 93.5 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? Yes ___ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ___ Yes ___ No
Have all offset operators been given written notice of the proposed downhole commingling? Yes ___ No
11. Will cross-flow occur? ___ Yes No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ___ Yes ___ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? Yes ___ No
13. Will the value of production be decreased by commingling? ___ Yes No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ___ Yes ___ No
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) _____
16. ATTACHMENTS:
* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
* Production curve for each zone for at least one year. (If not available, attach explanation.)
* For zones with no production history, estimated production rates and supporting data.
* Data to support allocation method or formula.
* Notification list of all offset operators.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Richard Lauderdale TITLE Production Engineer DATE 5/19/99
TYPE OR PRINT NAME RICHARD LAUDERDALE TELEPHONE NO. (915)683-0559

1625 N. French Dr., Hobbs, NM 88240
 DISTRICT II
 811 South First St., Artesia, NM 88210
 DISTRICT III
 1000 Rio Brazos Rd, Aztec, NM 87410
 DISTRICT IV
 2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-107-A
 Revised March 17, 1999

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

2040 S. Pacheco
 Santa Fe, New Mexico 87505-6429

Administrative Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

YES NO

ANADARKO PETROLEUM CORPORATION P O BOX 2497 MIDLAND TX 79702
 Operator Address
 E.W. WALDEN 12 F - SEC 15-T22S-R37E LEA
 Lease Well No. Unit Ltr. - Sec - Twp - Rge County
 Spacing Unit Lease Types: (check 1 or more)
 OGRID NO. 000817 Property Code 001414 API No. 30-025-27756 Federal State (and/or) Fee X

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	PENROSE SKELLY GRAYBURG 50350		EUNICE; SAN ANDRES, SOUTHWEST 24180
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3. Type of production (Oil or Gas)	OIL		OIL
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) 120 BHP	a.	a.
	b. (Original)	b.	b. FROM LOU WORTHAM C#2 ANALOGY (ATTACHED) 880 PSI
6. Oil Gravity (EAPI) or Gas BTU Content	35.0° API		37.1° API
7. Producing or Shut-In?	PRODUCING		SI
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	YES		YES, IN OFFSETTING LSES
	Date: Rates:	Date: Rates:	Date: 08/82 Rates: 27 BOPD, 245 BWPD 330 MCFPD
	Date: 4/20/99 Rates: 1 BOPD, 23 MCFPD, 2 BWPD	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: 3.5 % Gas: 6.5 %	Oil: % Gas: %	Oil: 96.5 % Gas: 93.5 %

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 If not, have all working, overriding, and royalty interests been notified by certified mail? Yes No
 Have all offset operators been given written notice of the proposed downhole commingling? Yes No
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13. Will the value of production be decreased by commingling? Yes No (If Yes, attach explanation)
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 * Notification list of all offset operators.
 * Notification list of working, overriding, and royalty interests for uncommon interest cases.
 * Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Richard Lauderdale TITLE Production Engineer DATE 5/19/99

TYPE OR PRINT NAME RICHARD LAUDERDALE TELEPHONE NO. (915/683-0559)

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-120
Effective 1-1-85

All distances must be from the outer boundaries of the Section

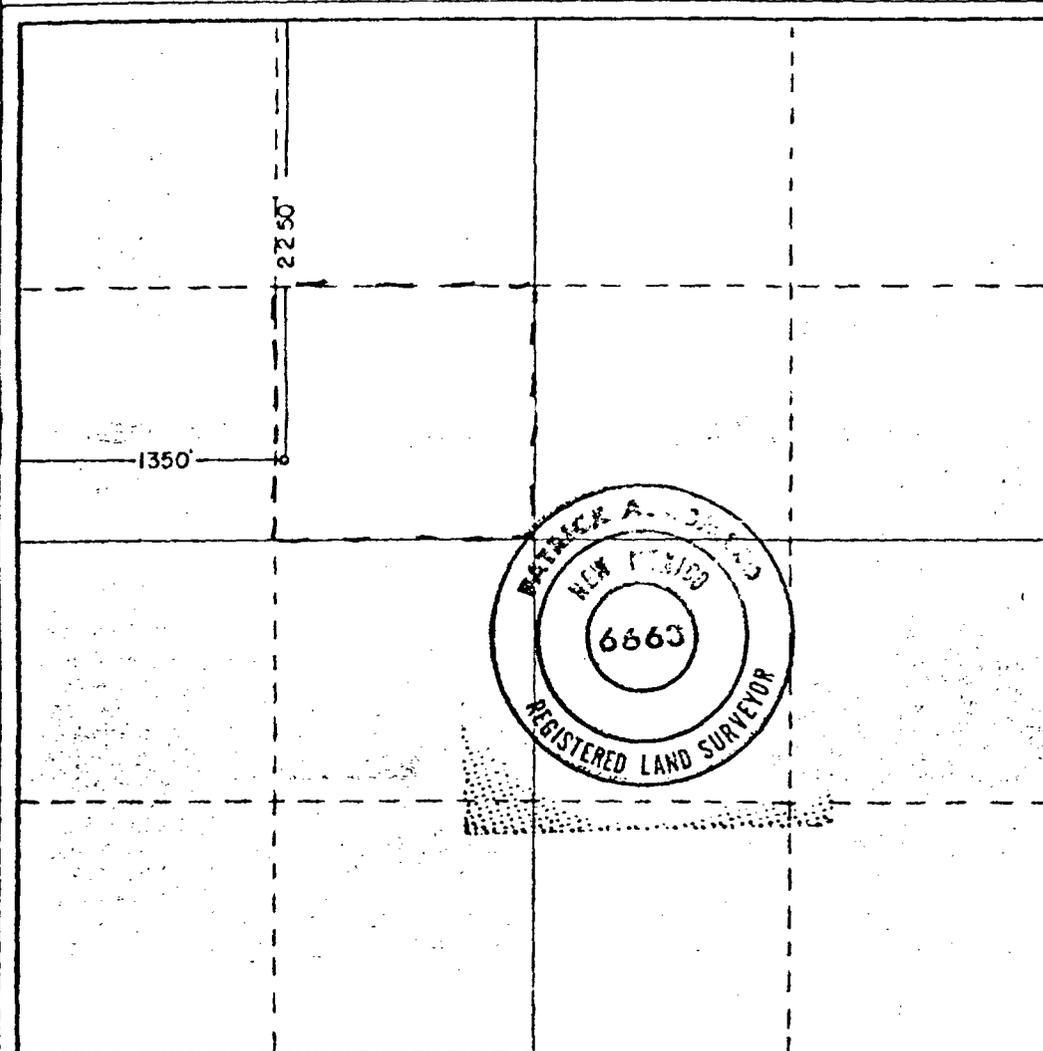
Operator ANADARKO PRODUCTION CO.		Lease E. W. WALDEN		Well No. 12
Tract Letter F	Section 15	Township 22 SOUTH	Range 37 EAST	County LEA
Actual Footage Location of Well: 2250 feet from the NORTH line and 1350 feet from the WEST line				
Ground Level Elev. 3402.6	Producing Formation Grayburg SA	Pool Penrose Skelly	(Pool Code) 50350	Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



REL 5/19/89 CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

John C. English
Name
John English
Position
Area Supervisor
Company
Anadarko Production Company
Date
February 17, 1982

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
2-11-82

Registered Professional Engineer and/or Land Surveyor
Patrick A. Romero

Certificate No. **JOHN W. WEST 878**
PATRICK A. ROMERO 6863
Ronald J. Eidson 3239

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-1
Effective 1-1-81

All distances must be from the outer boundaries of the Section

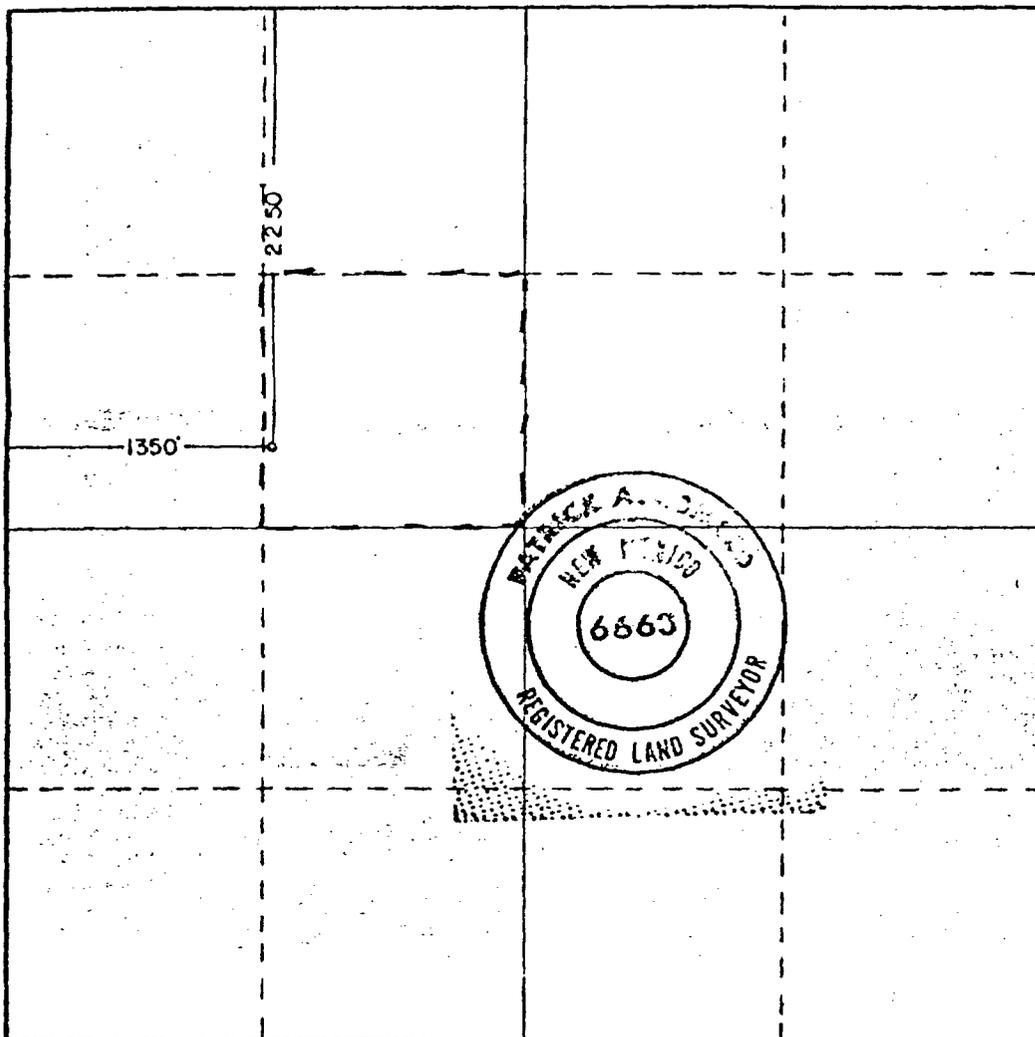
Operator ANADARKO PRODUCTION CO.		Lease E. W. WALDEN			Well No. 12
Inst. Letter F	Section 15	Township 22 SOUTH	Range 37 EAST	County LEA	
Actual Footage Location of Well:					
2250		feet from the	NORTH	line and	1350
				feet from the	WEST
					line
Ground Level Elev. 3402.6	Producing Formation Grayburg SA		Pool Penrose Skelly	(Pool Code) 50350	Dedicated Acreage: 40 Acres

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Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



REL 5/19/82 CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

John C. English
Name
John English
Position
Area Supervisor
Company
Anadarko Production Company
Date
February 17, 1982

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Date Surveyed **2-11-82**

Registered Professional Engineer and/or Land Surveyor
Patrick A. Romero

Certificate No. **JOHN W. WEST 876**
PATRICK A. ROMERO 666
Ronald J. Eidson 323

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-1
Effective 1-1-81

All distances must be from the outer boundaries of the Section

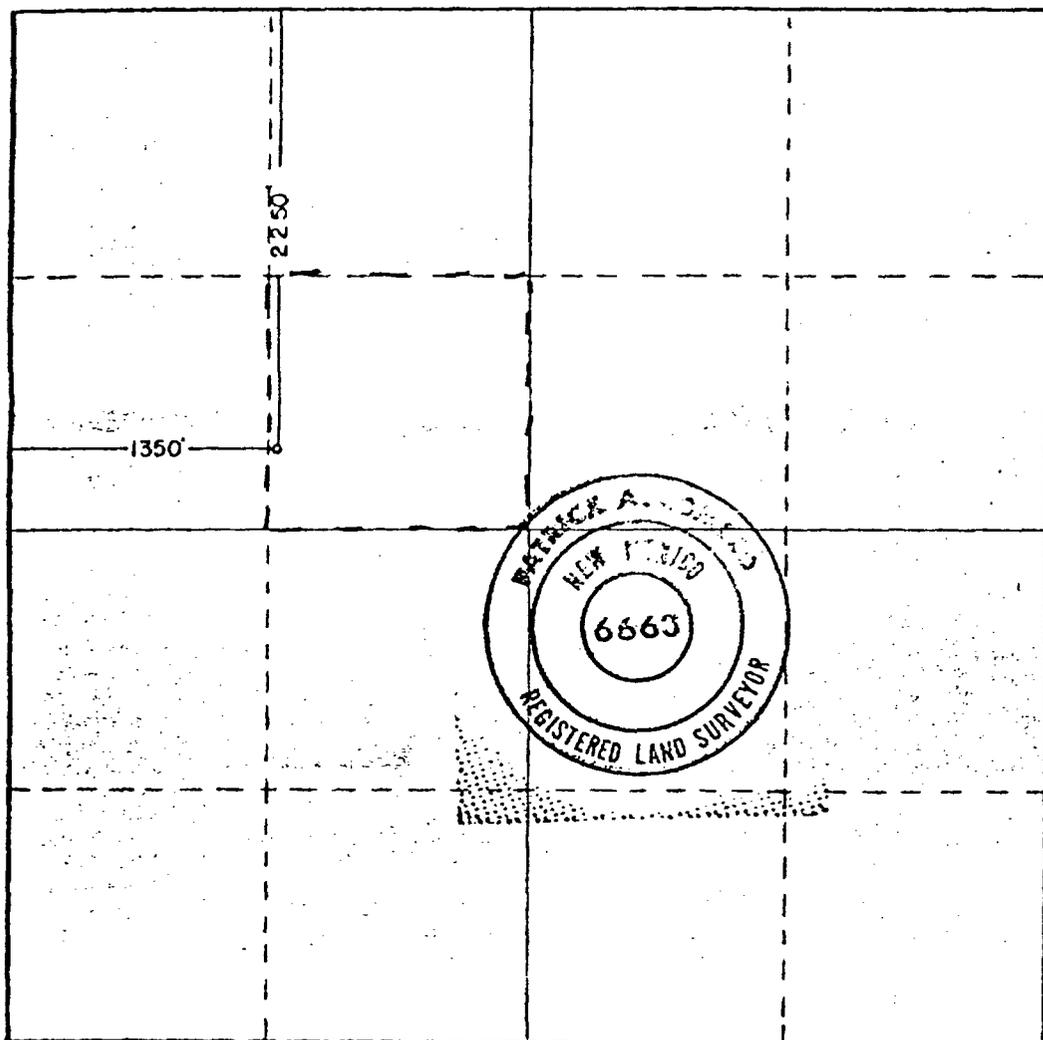
Operator ANADARKO PRODUCTION CO.		Lease E. W. WALDEN		Well No. 12
Tract Letter F	Section 15	Township 22 SOUTH	Range 37 EAST	County LEA
Actual Footage Location of Well:				
2250 feet from the NORTH line and		1350 feet from the WEST line		
Ground Level Elev. 3402.6	Producing Formation Grayburg SA	Pool Penrose Skelly	(Pool Code) 50350	Dedicated Acreage: 40 Acres

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Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



REL 5/19/82 CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

John C. English
Name: **John English**
Position: **Area Supervisor**
Company: **Anadarko Production Company**
Date: **February 17, 1982**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **2-11-82**

Registered Professional Engineer and or Land Surveyor
Patrick A. Romero

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 666
Ronald J. Eidson 323

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-1
Effective 1-1-81

All distances must be from the outer boundaries of the Section

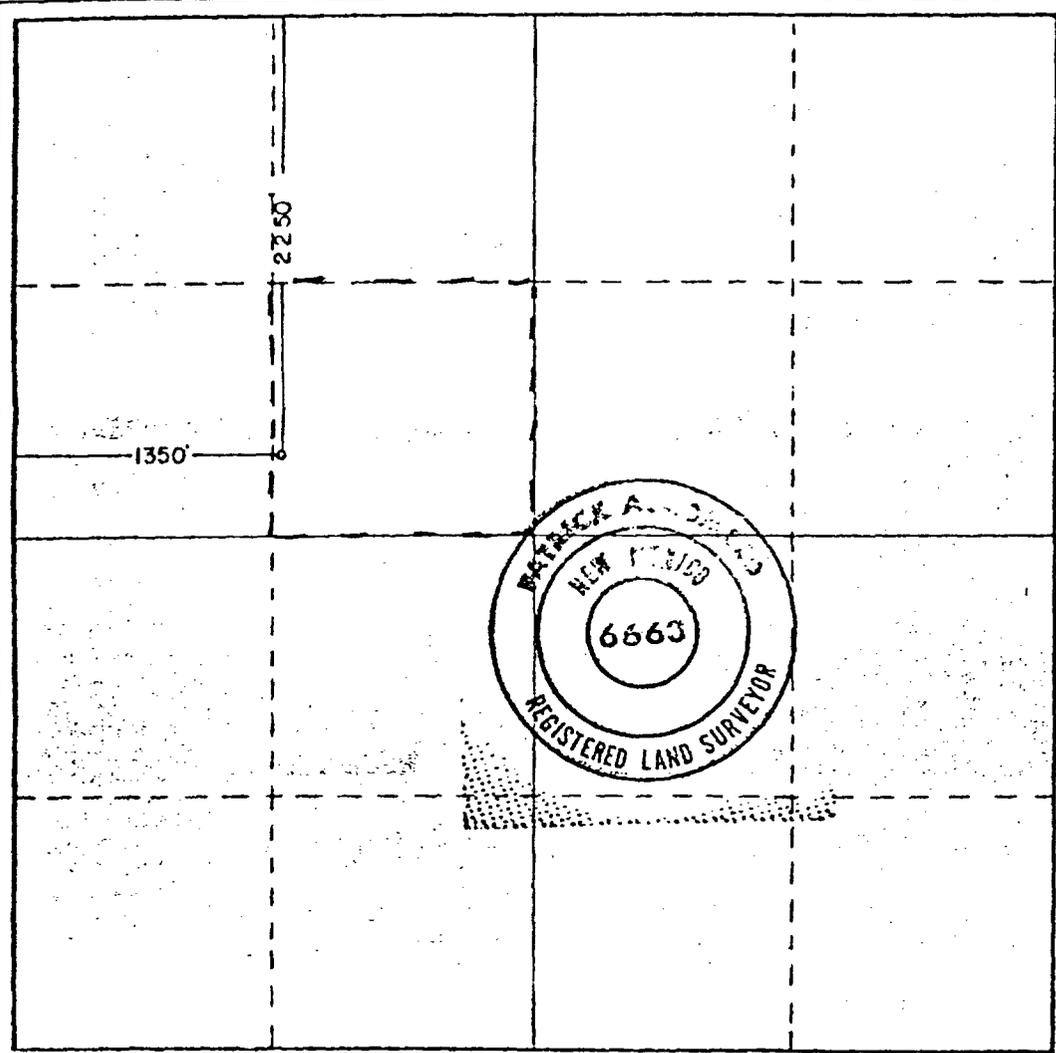
Operator ANADARKO PRODUCTION CO.		Lease E. W. WALDEN		Well No. 12	
Tract Letter F	Section 15	Township 22 SOUTH	Range 37 EAST	County LEA	
Actual Footage Location of Well: 2250 feet from the NORTH line and 1350 feet from the WEST line					
Ground Level Elev. 3402.6	Producing Formation Grayburg SA	Pool Penrose Skelly	(Pool Code) 50350	Dedicated Acreage: 40	Acre:

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REL 5/19/82 CERTIFICATION

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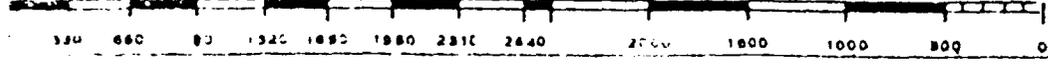
John C. English
Name: **John English**
Position: **Area Supervisor**
Company: **Anadarko Production Compa**
Date: **February 17, 1982**

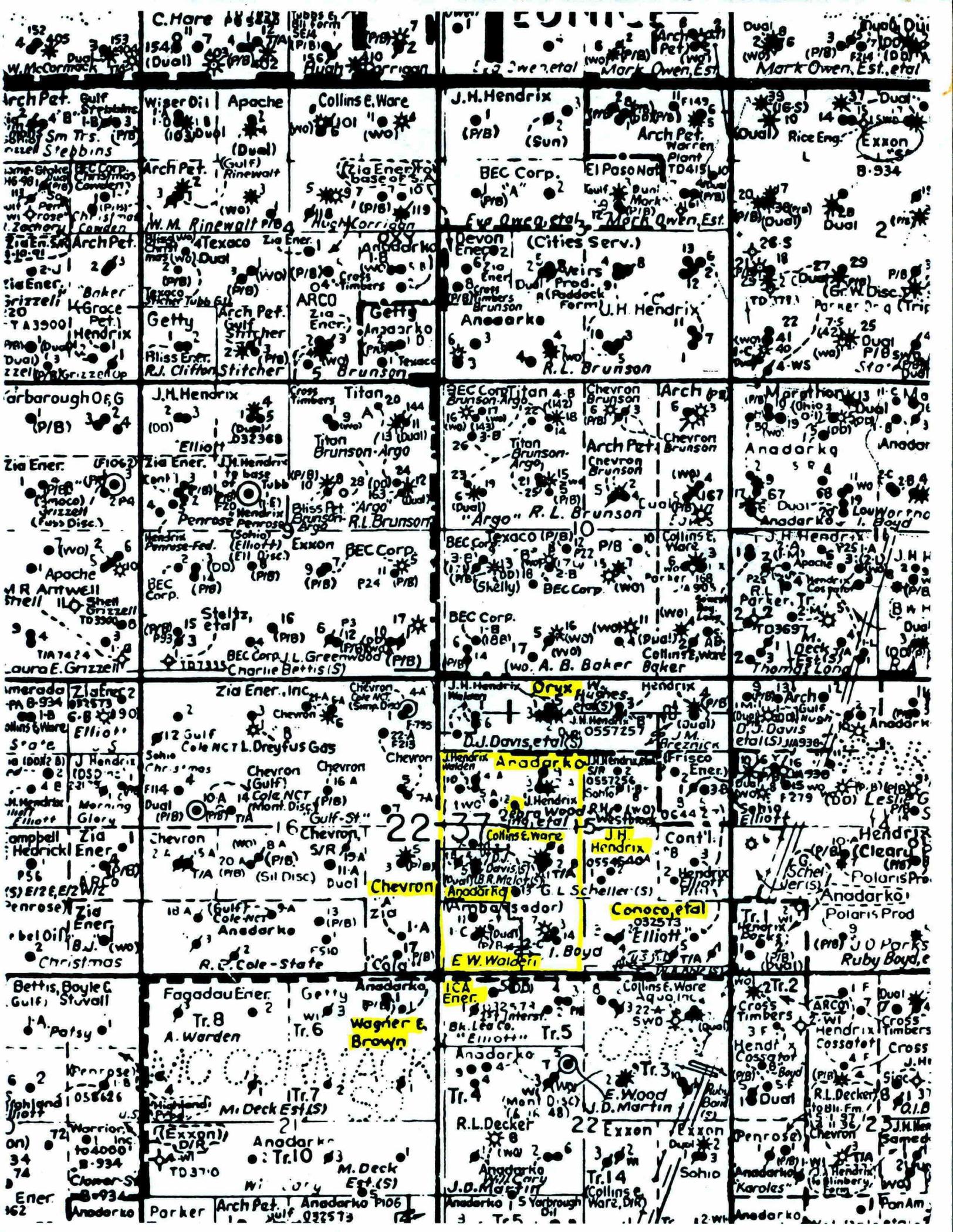
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **2-11-82**

Registered Professional Engineer and/or Land Surveyor:
Patrick A. Romero

Certificate No. **JOHN W. WEST 876**
PATRICK A. ROMERO 666
Ronald J. Eidson 323





C. Hare
154
(Dual)
W. McCormack

Collins E. Ware
101
(wo)
Hugh Carrigan

J.H. Hendrix
(P/B)
(Sun)

Arch Pet.
Mark Owen, Est.

Mark Owen, Est. et al

Dual
Rice Eng.
Exxon
B-934

Wiser Oil | Apache
103
(Dual)

Collins E. Ware
101
(wo)

J.H. Hendrix
(P/B)
(Sun)

Arch Pet.
Mark Owen, Est.

Rice Eng.
Exxon
B-934

Dual
Rice Eng.
Exxon
B-934

Arch Pet.
W.M. Rinewalt
103
(Dual)

Zia Ener.
Hush Carrigan

BEC Corp.
Eva Owen, et al

El Paso Nat.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

W.M. Rinewalt
103
(Dual)

Zia Ener.
Hush Carrigan

Devon Ener.
Anadarko

El Paso Nat.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Getty
R.J. Clifton
103
(Dual)

Getty
Anadarko

Anadarko
R.L. Brunson

U.H. Hendrix
R.L. Brunson

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

J.H. Hendrix
Elliott
103
(Dual)

Titan
Brunson-Argo

BEC Corp.
R.L. Brunson

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Zia Ener.
Hush Carrigan

Bliss Pet.
R.L. Brunson

BEC Corp.
R.L. Brunson

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

BEC Corp.
Stoltz, et al

Exxon
BEC Corp.

BEC Corp.
A.B. Baker

Collins E. Ware
Baker

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

BEC Corp.
Charlie Bettis (S)

Exxon
BEC Corp.

BEC Corp.
A.B. Baker

Collins E. Ware
Baker

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Zia Ener. Inc.
Chevron

Chevron
Dreyfus Gas

J.H. Hendrix
D.J. Davis, et al

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Gulf
Dreyfus Gas

Chevron
Dreyfus Gas

Anadarko
D.J. Davis, et al

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Chevron
Dreyfus Gas

Chevron
Dreyfus Gas

Anadarko
D.J. Davis, et al

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Anadarko
R.E. Cole - State

Anadarko
R.E. Cole - State

Anadarko
R.E. Cole - State

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Fogadou Ener.
A. Warden

Getty
Wagner E. Brown

ICA Ener.
Elliott

Collins E. Ware
Aqua, Inc.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Tr. 8
A. Warden

Getty
Wagner E. Brown

ICA Ener.
Elliott

Collins E. Ware
Aqua, Inc.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Tr. 7
Mi Deck Est (S)

Getty
Wagner E. Brown

ICA Ener.
Elliott

Collins E. Ware
Aqua, Inc.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

Tr. 10
M. Deck Est (S)

Getty
Wagner E. Brown

ICA Ener.
Elliott

Collins E. Ware
Aqua, Inc.

Arch Pet.
Mark Owen, Est.

Arch Pet.
Mark Owen, Est.

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-27756		² Pool Code 24180		³ Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	
⁴ Property Code 001414		⁵ Property Name E.W. WALDEN			⁶ Well Number
⁷ OGRID No. 000817		⁸ Operator Name Anadarko Petroleum Corp.			⁹ Elevation 3402.6' GR

¹⁰ Surface Location									
UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------	-------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON--STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>			
	<p><i>Richard Lauderdale</i></p> <p>Signature RICHARD LAUDERDALE</p> <p>Printed Name PRODUCTION ENGINEER</p> <p>Title 05/19/1999</p> <p>Date</p>			
	¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>			
	<p>Date of Survey</p> <p>Signature and Seal of Professional Surveyer:</p> <p>Certificate Number</p>			

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¹⁰ Surface Location

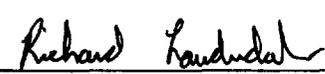
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County

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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON--STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

1350'	2250'			<p>¹⁷ OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p style="text-align: center;"></p> <p>Signature RICHARD LAUDERDALE</p> <p>Printed Name PRODUCTION ENGINEER</p> <p>Title 05/19/1999</p> <p>Date</p>	
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OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-27756		² Pool Code 24180		³ Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	
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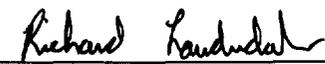
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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	2250'				¹⁷ OPERATOR CERTIFICATION	
					I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
					 Signature RICHARD LAUDERDALE Printed Name PRODUCTION ENGINEER Title 05/19/1999 Date	
1350'					¹⁸ SURVEYOR CERTIFICATION	
					I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
					Date of Survey Signature and Seal of Professional Surveyer: _____ Certificate Number	

State of New Mexico
Energy, Minerals & Natural Resources Department

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UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County

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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON--STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>2250'</p>	<p>1350'</p>	<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Richard Lauderdale</i></p> <p>Signature RICHARD LAUDERDALE</p> <p>Printed Name PRODUCTION ENGINEER</p> <p>Title 05/19/1999</p> <p>Date</p>	
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OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		² OGRID Number 000817
		³ Reason for Filing Code COMMINGLE DOWNHOLE
⁴ API Number 30-0 25-27756	⁵ Pool Name PENROSE SKELLY GRAYBURG	⁶ Pool Code 50350
⁷ Property Code 001414	⁸ Property Name E.W. WALDEN	⁹ Well Number 12

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA
¹² Lse Code P	¹³ Producing Method Code P		¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PBDT 3890	²⁹ Perforations 3640-3843	³⁰ DHC, DC, MC
³¹ Hole Size 12-1/4"	³² Casing & Tubing Size 8-5/8" CSG	³³ Depth Set 1166'		³⁴ Sacks Cement 575 SX	
	7-7/8"	5-1/2" CSG		4031'	
		2-3/8 TBG		3890'	
TEMP SVY - TOC @ 968'					

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Richard Lauderdale*

Printed name:
RICHARD LAUDERDALE

Title:
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

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⁵ Pool Name PENROSE SKELLY GRAYBURG		⁶ Pool Code 50350
⁷ Property Code 001414	⁸ Property Name E.W. WALDEN	⁹ Well Number 12

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA
¹² Lse Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date	

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¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PSTD 3890	²⁹ Perforations 3640-3843	³⁰ DHC, DC, MC
³¹ Hole Size 12-1/4"	³² Casing & Tubing Size 8-5/8" CSG	³³ Depth Set 1166'	³⁴ Sacks Cement 575 SX		
³¹ Hole Size 7-7/8"	³² Casing & Tubing Size 5-1/2" CSG	³³ Depth Set 4031'	680 SX		
	³² Casing & Tubing Size 2-3/8 TBG	³³ Depth Set 3890'	TEMP SVY - TOC @ 968'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

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Printed name:
RICHARD LAUDERDALE

Title:
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

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Previous Operator Signature

Printed Name

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Date

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II. ¹⁰ Surface Location

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F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
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¹² Lse Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

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IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
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V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PBSD 3890	²⁹ Perforations 3640-3843	³⁰ DHC, DC, MC
³¹ Hole Size 12-1/4"	³² Casing & Tubing Size 8-5/8" CSG	³³ Depth Set 1166'	³⁴ Sacks Cement 575 SX		
	7-7/8"	5-1/2" CSG	4031'	680 SX	
				TEMP SVY - TOC @ 968'	
	2-3/8 TBG		3890'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
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Signature: *Richard Lauderdale*
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OIL CONSERVATION DIVISION

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Previous Operator Signature	Printed Name	Title	Date

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¹¹ Bottom Hole Location

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¹² Lse Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
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V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PBSD 3890	²⁹ Perforations 3640-3843	³⁰ DHC, DC, MC
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OIL CONSERVATION DIVISION

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Previous Operator Signature	Printed Name	Title	Date
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⁹ Well Number 12			

II. ¹⁰ Surface Location

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¹¹ Bottom Hole Location

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¹² Lse Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PBDT 3890	²⁹ Perforations 3640-3843	³⁰ DHC, DC, MC
³¹ Hole Size 12-1/4"	³² Casing & Tubing Size 8-5/8" CSG	³³ Depth Set 1166'	³⁴ Sacks Cement 575 SX		
	7-7/8"	5-1/2" CSG	4031'	680 SX	
				TEMP SVY - TOC @ 968'	
	2-3/8 TBG		3890'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Richard Lauderdale*
 Printed name: RICHARD LAUDERDALE
 Title: PRODUCTION ENGINEER
 Date: 05/19/1999 Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:
 Title:
 Approval Date:

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date
-----------------------------	--------------	-------	------

District I
 PO Box 1980, Hobbs, NM 88241-1980
 District II
 PO Drawer DD, Artesia, NM 88211-0719
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 2040 South Pacheco, Santa Fe, NM 87505

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 Energy, Minerals & Natural Resources Department

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OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		² OGRID Number 000817	
⁴ API Number 30-0 25-27756		⁵ Pool Name PENROSE SKELLY GRAYBURG	
⁷ Property Code 001414		⁶ Pool Code 50350	
⁸ Property Name E.W. WALDEN		⁹ Well Number 12	
³ Reason for Filing Code COMMINGLE DOWNHOLE			

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA
¹² Lse Code P	¹³ Producing Method Code P		¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBDT	²⁹ Perforations	³⁰ DHC, DC, MC
05/31/82	07/04/82	4031	3890	3640-3843	
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
12-1/4"	8-5/8" CSG	1166'	575 SX		
7-7/8"	5-1/2" CSG	4031'	680 SX		
	2-3/8 TBG	3890'		TEMP SVY - TOC @ 968'	

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Richard Lauderdale*

Printed name:
RICHARD LAUDERDALE

Title:
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

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AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		² OGRID Number 000817	
⁴ API Number 30-0 25-27756		⁵ Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	
⁷ Property Code 001414		⁹ Well Number 12	
³ Reason for Filing Code COMMINGLE DOWNHOLE		⁶ Pool Code 24180	
⁸ Property Name E.W. WALDEN			

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				
P	P								

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBSD	²⁹ Perforations	³⁰ DHC, DC, MC
05/31/82	07/04/82	4031	3890	3899-3976	
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
12-1/4"	8-5/8" CSG	1166'	575 SX		
7-7/8"	5-1/2" CSG	4031'	680 SX		
	2-3/8 TBG	3890'	TEMP SVY - TOC @ 968'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Richard Lauderdale*

Printed name:
RICHARD LAUDERDALE

Title:
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

OIL CONSERVATION DIVISION

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Title:

Approval Date:

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Previous Operator Signature	Printed Name	Title	Date

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AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		² OGRID Number 000817
		³ Reason for Filing Code COMMINGLE DOWNHOLE
⁴ API Number 30-0 25-27756	⁵ Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	⁶ Pool Code 24180
⁷ Property Code 001414	⁸ Property Name E.W. WALDEN	⁹ Well Number 12

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹² Lse Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PBTD 3890	²⁹ Perforations 3899-3976	³⁰ DHC, DC, MC
³¹ Hole Size 12-1/4"	³² Casing & Tubing Size 8-5/8" CSG	³³ Depth Set 1166'	³⁴ Sacks Cement 575 SX		
7-7/8"	5-1/2" CSG	4031'	680 SX		
2-3/8 TBG		3890'	TEMP SVY - TOC @ 968'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

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Signature: *Richard Lauderdale*

Printed name:
RICHARD LAUDERDALE

Title:
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:

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Approval Date:

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Previous Operator Signature

Printed Name

Title

Date

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AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		² OGRID Number 000817
⁴ API Number 30-0 25-27756		³ Reason for Filing Code COMMINGLE DOWNHOLE
⁵ Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST		⁶ Pool Code 24180
⁷ Property Code 001414	⁸ Property Name E.W. WALDEN	⁹ Well Number 12

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹² Lse Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PBDT 3890	²⁹ Perforations 3899-3976	³⁰ DHC, DC, MC
³¹ Hole Size 12-1/4"	³² Casing & Tubing Size 8-5/8" CSG	³³ Depth Set 1166'	³⁴ Sacks Cement 575 SX		
	7-7/8"	5-1/2" CSG	4031'	680 SX	
				TEMP SVY - TOC @ 968'	
	2-3/8 TBG		3890'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Richard Lauderdale*

Printed name:
RICHARD LAUDERDALE

Title:
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		² OGRID Number 000817	
⁴ API Number 30-0 25-27756		⁵ Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	
⁷ Property Code 001414		⁶ Pool Code 24180	
⁸ Property Name E.W. WALDEN		⁹ Well Number 12	
³ Reason for Filing Code COMMINGLE DOWNHOLE			

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA
¹² Lse Code P	¹³ Producing Method Code P		¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PBSD 3890	²⁹ Perforations 3899-3976	³⁰ DHC, DC, MC
³¹ Hole Size 12-1/4"	³² Casing & Tubing Size 8-5/8" CSG	³³ Depth Set 1166'	³⁴ Sacks Cement 575 SX		
	7-7/8"	5-1/2" CSG	4031'	680 SX	
				TEMP SVY - TOC @ 968'	
	2-3/8 TBG		3890'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Richard Lauderdale*
Printed name: RICHARD LAUDERDALE
Title: PRODUCTION ENGINEER
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OIL CONSERVATION DIVISION			
Approved by:			
Title:			
Approval Date:			

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Previous Operator Signature	Printed Name	Title	Date

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AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX. 79702		² OGRID Number 000817
		³ Reason for Filing Code COMMINGLE DOWNHOLE
⁴ API Number 30-0 25-27756	⁵ Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	⁶ Pool Code 24180
⁷ Property Code 001414	⁸ Property Name E.W. WALDEN	⁹ Well Number 12

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹² Lse Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PBSD 3890	²⁹ Perforations 3899-3976	³⁰ DHC, DC, MC
³¹ Hole Size 12-1/4"	³² Casing & Tubing Size 8-5/8" CSG	³³ Depth Set 1166'	³⁴ Sacks Cement 575 SX		
	7-7/8"	5-1/2" CSG	4031'	680 SX	
				TEMP SVY - TOC @ 968'	
	2-3/8 TBG		3890'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

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Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:

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Approval Date:

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Previous Operator Signature

Printed Name

Title

Date

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¹ Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		² OGRID Number 000817
		³ Reason for Filing Code COMMINGLE DOWNHOLE
⁴ API Number 30-0 25-27756	⁵ Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	⁶ Pool Code 24180
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UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

¹² Lse Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date 05/31/82	²⁶ Ready Date 07/04/82	²⁷ TD 4031	²⁸ PBSD 3890	²⁹ Perforations 3899-3976	³⁰ DHC, DC, MC
³¹ Hole Size 12-1/4"	³² Casing & Tubing Size 8-5/8" CSG	³³ Depth Set 1166'	³⁴ Sacks Cement 575 SX		
	7-7/8"	5-1/2" CSG	4031'	680 SX	
				TEMP SVY - TOC @ 968'	
	2-3/8 TBG		3890'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Richard Lauderdale*

Printed name:
RICHARD LAUDERDALE

Title:
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

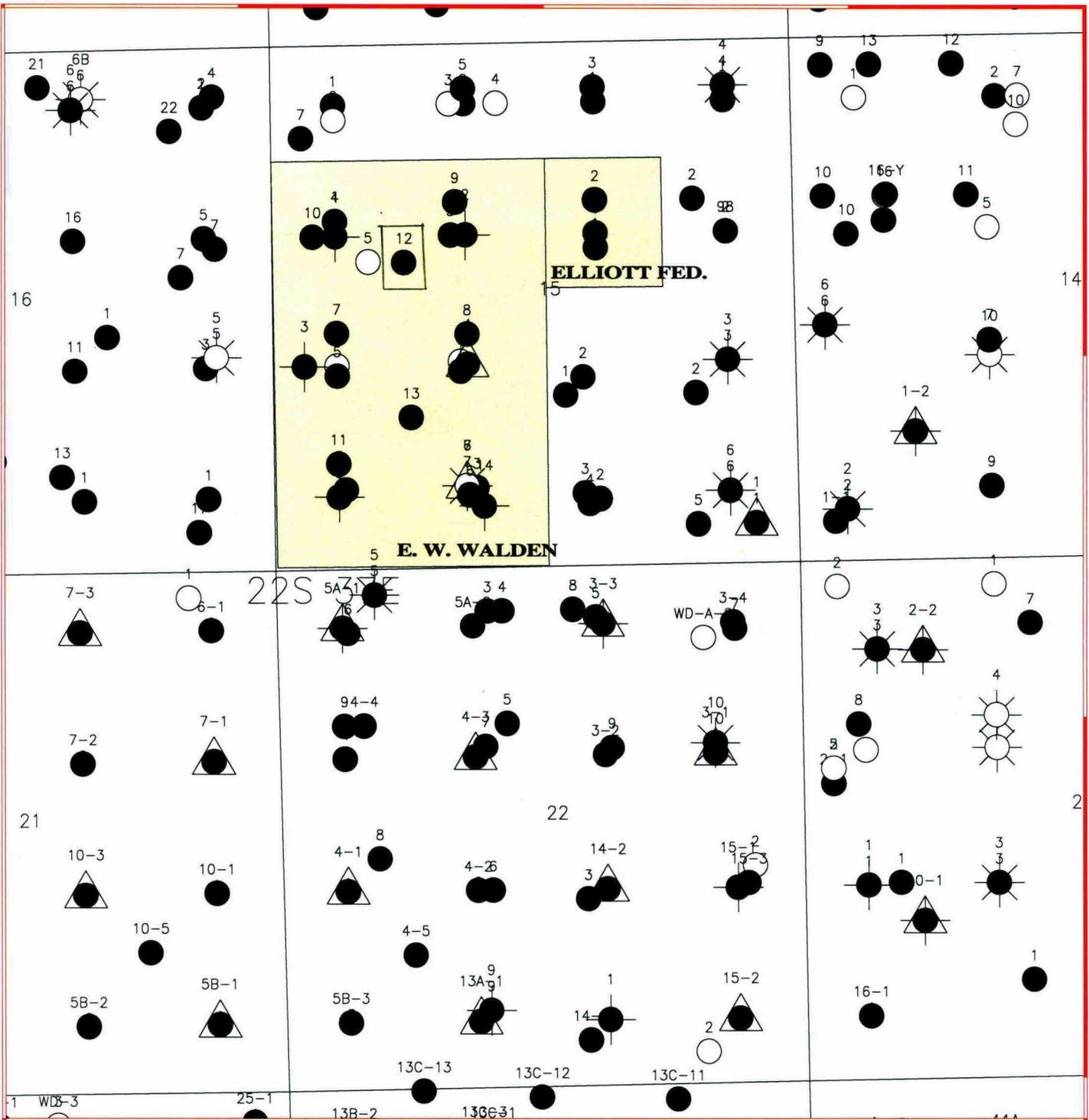
⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date



Legend

- Oil Well
- ☀ Gas Well
- ▲ Unit Injector
- ⊕ Plugged & Abandoned
- ⊖ Temporarily Abandoned - Oil
- Dry Hole
- Anadarko Acreage

Waldentg.ppt



Anadarko
Petroleum Corporation

E. W. WALDEN LEASE

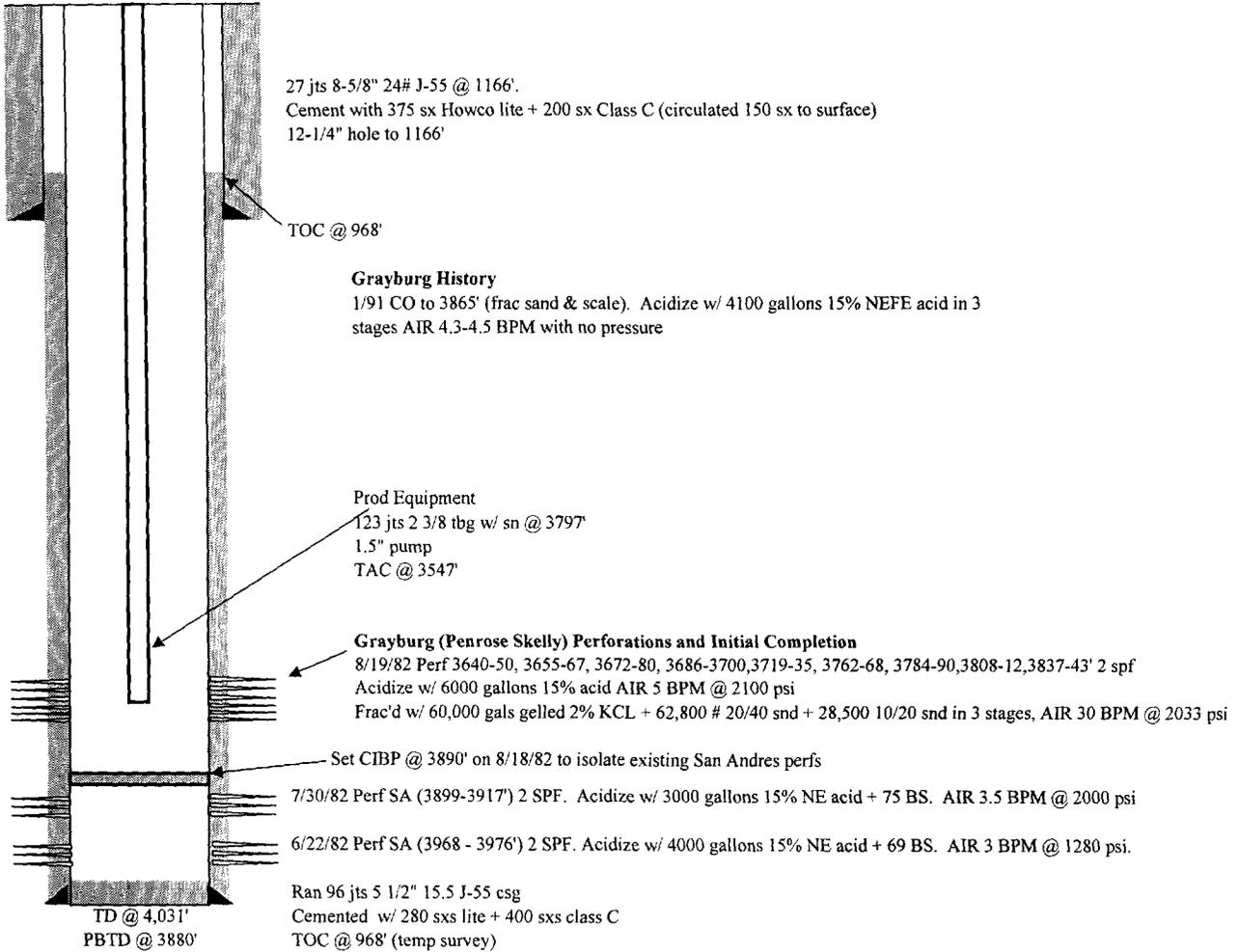
Lea County, New Mexico

Date: 4/7/99	Scale: 1" = 2000'
Engineer: R. Lauderdale	Engineering
File: ewwalden.gpt	Drawn By: KP
Project: NMEX	wsidentb.ppt
Prospect: E. W. WALDEN	printer - 18 x 24P

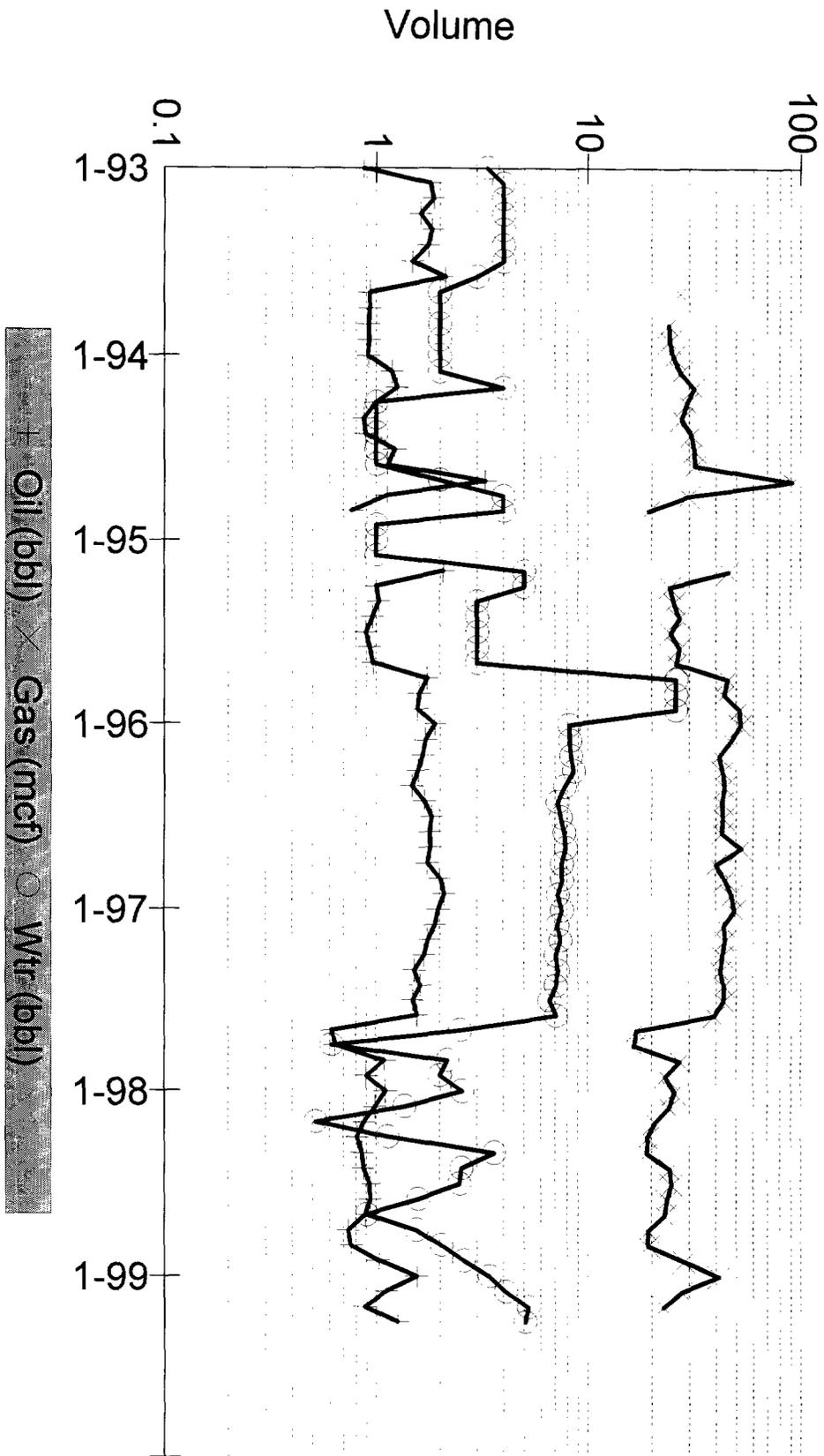
Exhibit 1

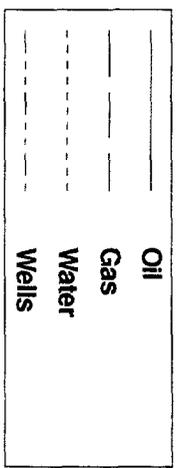
E.W. Walden #12

Penrose Skelly (Grayburg) Oil Well
2250' FNL & 1350' FWL, Sec. 15, T22S, R37E, Lea County, New Mexico
Spudded 5/30/82



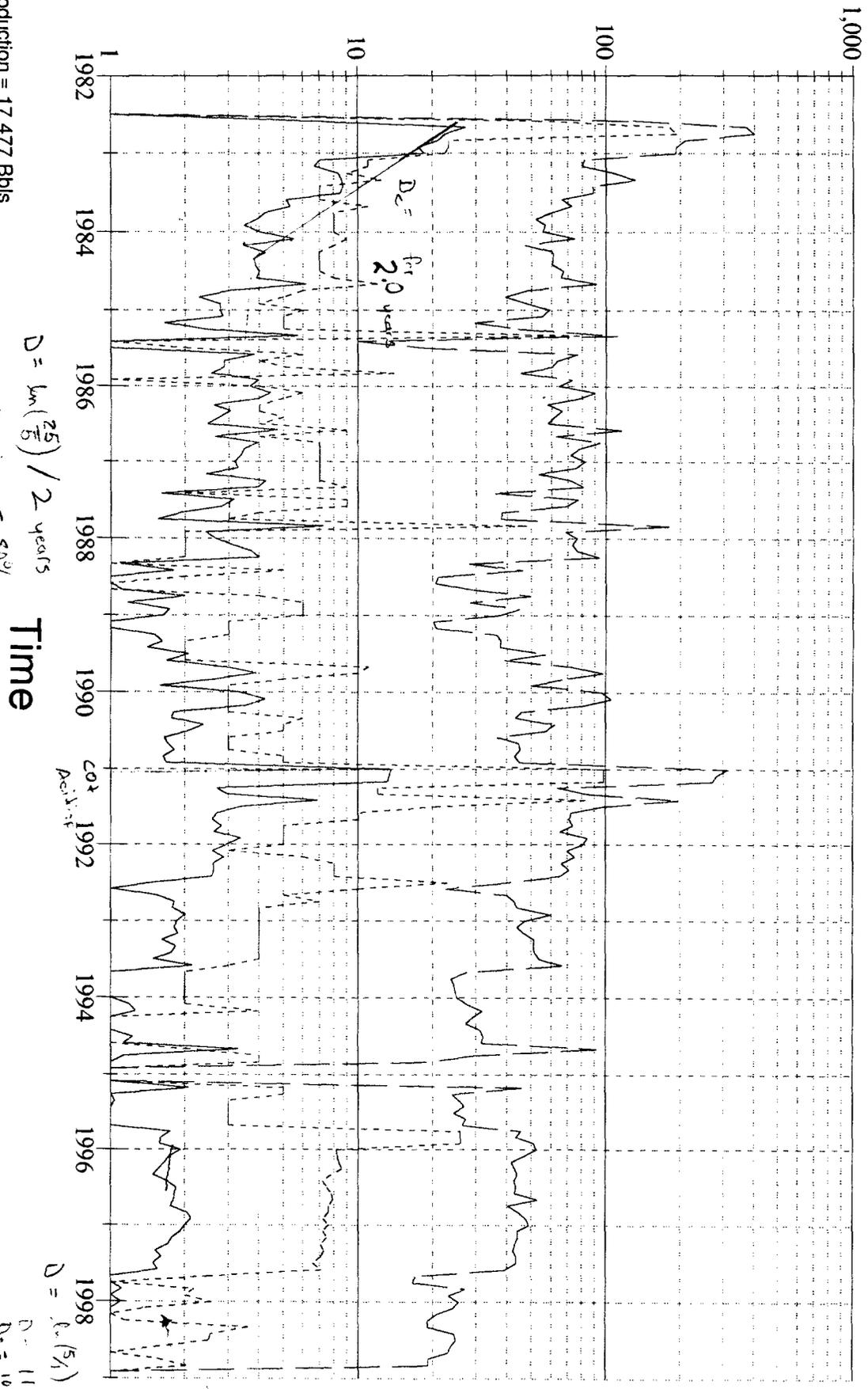
WALDEN E.W. 12 Penrose Skelly Grayburg





Field: PENROSE SKELLY
 Lease: E W WALDEN | Well #12
 Operator: ANADARKO PETROLEUM CORPORATION
 Production Rate vs Time
 For the Period 01/1982 to 12/1998 | API: 30025277560000

BBI/Day or Mcf/Day



Reported Oil Production = 17,477 Bbls
 Reported Gas Production = 351,508 Mcf
 Reported Water Production = 58,736 Bbls

$D = \ln\left(\frac{25}{5}\right) / 2 \text{ years}$
 $D \cdot \text{d.t.} = 50\%$
 $D \cdot \text{d.t.} = 55\%$

Plot Displays Daily Averages
 Copyright (C) 1999 by Petroleum Information/Dwights LLC

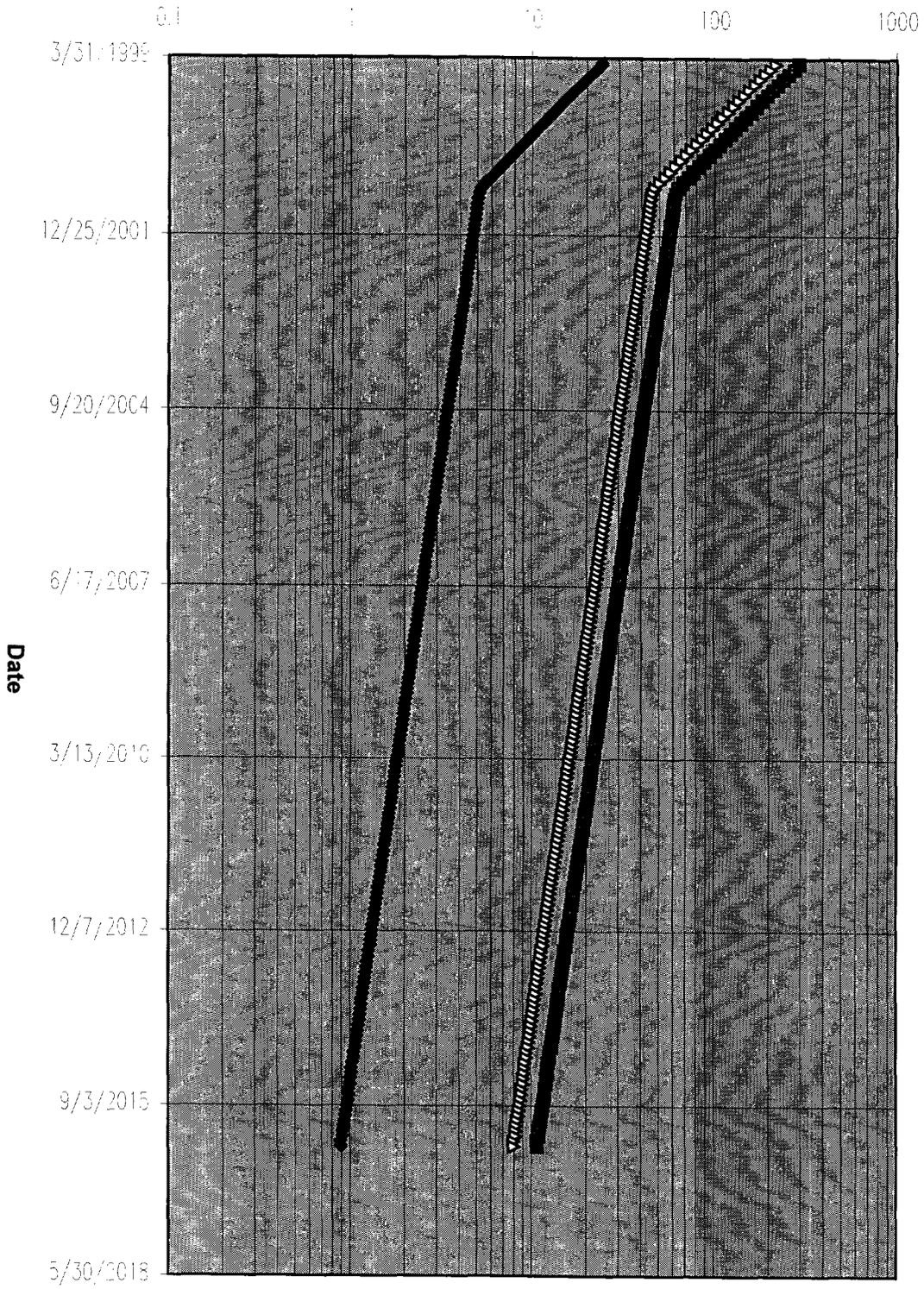
San Andres History in EW Walden #12

perfs	3968-76	Oil Rate	Water Rate	Gas Rate
7/8/1982	0	190	11	
7/9/1982	0	192	19	
7/10/1982	0	197	23	
7/11/1982	2	190	25	
7/12/1982	0	190	18	
7/13/1982	NO Test			
7/14/1982	NO Test			
7/15/1982	NO Test			
7/16/1982	27	154	44	
7/17/1982	47	217	NA	
7/18/1982	17	86	NA	
7/19/1982	13	220	NA	
7/20/1982	64	80	NA	
7/21/1982	NO Test		NA	
7/22/1982	25	260	NA	
7/23/1982	34	208	NA	
7/24/1982	22	178	NA	
7/25/1982	19	169	NA	
7/26/1982	17	164	NA	
7/27/1982	15	161	NA	
7/28/1982	14	162	NA	
7/30/1982	Set RBP @ 3960' to test Upper SA			

perfs	3899-3917	Oil Rate	Water Rate	Gas Rate
8/7/1982	5	205	NA	
8/8/1982	5	220	NA	
8/9/1982	9	135	NA	
8/10/1982	10	163	NA	
8/11/1982	NO Test		NA	
8/12/1982	3	141	NA	
8/13/1982	15	141	NA	
8/14/1982	10	50	NA	
8/15/1982	10	50	NA	
8/16/1982	NO Test		NA	
8/17/1982	9	131	NA	
8/18/1982	10	140	NA	

8/18/1982 Set CIBP above San Andres perforations and this well has been Grayburg producer since that time.

EW Walden #12 Projected San Andres Production
 Based on Grayburg Analogy in well



◆ Oil Rate, BOPD
 ■ Gas Rate, MCFPD
 ▲ Water Rate, BWPD



COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3-3813
611 GRIMES
P O BOX 1829
HOBBS, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

OPERATOR ANADARKO PRODUCTION COMPANY
FIELD SOUTH EUNICE FORMATION SAN ANDRES
LEASE WORTHAM C WELL No. 2
COUNTY LEA STATE NEW MEXICO
DATE 1-23-71 TIME 11:00 AM
Status SHUT IN Test depth 4200'
Time S. I. 8 DAYS Last test date INITIAL
Tub Pres. 30 BHP last test -
Cas. Pres. - BHP change -
Elev. 3353' DF Fluid top 1971'
Datum (-847') Water top 4000'
Temp. @ 104 OF Run by WEAVER
Cal. No. A2419N Chart No. 1

Depth	Pressure	Gradient
0	30	-
1000	82	.052
2000	142	.060
3000	467	.325
4000	794	.327
4200	880	.430

